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\* INDIANA SINCLAIR-TIMEX NEWSLETTER \*  
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July-August 1990

Editor-Frank Davis  
Assist - M. Felerski

This issue....

Next meetings -- August, September and October  
Hints and Tips on Sinclairs by Eliad P. Wannum  
The Sinclair Desktop Publishing Journal by M. Felerski  
Dan Elliott's Sinclair Repair Service Update  
Where Can You get TS1000 Supplies?  
Handling Memopac and TS2040 Incompatibility

I. S. T. U. G. MEETING

The meeting for August will be held at the Dayton Computerfest in Dayton, Ohio (see notice and info in last issue) on Sunday, August 26th. We will meet at the Dayton Sinclair Users group table at noon. Check your program you get at the door as you enter the Computerfest, as to how to get to that booth. This will give us a chance to attend a really good computer show while having our meeting, all on the same day. Those needing a ride to the show should check with Paul Holmgren or Frank Davis to see about car pooling. Call Paul at 317-291-6002 or Frank at 317-473-8031. This show does not have a lot of Timex or Sinclair stuff (except for the occasional used item here and there), but does have lots of monitors, disk drives, cases, power supplies, paper, seminars, floppies, at good prices for both new and used. Also stop and get acquainted with the Dayton Sinclair users and their leader Gary Ganger. For those with either CPM on their TS2068 or QL CPM emulator and the IBM emulators for the QL can pick up public domain or shareware cheaply at the show. Hope to see you there.

The meeting for the month of September will be held at the Eagledale Public Library. For those who need directions call Paul Holmgren at 317-291-6002 or Frank Davis at 317-473-8031. It will be at 1:30 PM on September 29th.

The October meeting shall be held at the Eagledale Public Library at 1:30 PM on October 27th. See you there! Ooops! I should not say that...as I will not be there. That is too near my anniversary and as is my custom, my bride and I will be off honeymooning again. Have a good time at the meeting, but without me.

Many of you have sent in your dues, and to those I want to say thank you. To keep ISTUG running your dues money is needed and is what pays for the newsletter and postage to answer many inquiries from other groups or users, and for tables at computer shows, etc. For those who have not yet renewed, please do so as soon as is possible. The dues structure is listed on the outside cover of the newsletter. A few folks seem to have not noticed that we raised dues over a year ago, as they sent in the old dues amount. If you are past due, then it will state so on the outside cover near your name and address. I hope to be hearing from you soon. I also expect to see a few more of your faces at future meetings so that we see just what it is you do with your computers.

## HINTS AND TIPS ON SINCLAIRS

by Eliad P. Wannum

First off I would like to discuss one of the best ways to improve upon your QL, short of adding more memory, disk drives or a hard drive. That method is to replace the ROM chips that are in your QL with the Tom Bent designed internal eprom board. When you do this you can then get an updated ROM for your computer that has had some (or maybe even all) of the bugs improved upon or eliminated. Currently the most often seen ROM in the U.S. is the JSU ROM. There have been several improvements made since this, however. Some of these are the MGUK, MGUS and the MINERVA ROMS. In Great Britain the JM ROM is still quite common, but has lost some ground to the MGUK and the MINERVA.

Here are a few notes taken on these ROMS. This is not a complete comparison of the good and bad points of these ROMS. If you are using the MGUS and trying to work with Digital Precisions IBM emulator program, the Solution, then you can not get back into QDOS from MSDOS. This effectively rules out being able to multi-task QDOS and MSDOS. With the MGUK and the MINERVA you are able to multi-task this emulator. I have been told the same thing applies to the CPM emulator programs, but do not have them to confirm this.

I have at various times used all of these versions of ROM, in fact I have a QL with each of them installed. All of them except the JSU and JM ROMs are on eprom. According to literature received the best reason to go with the eprom is that the ROM chips in your QL are very power thirsty. When replaced with the eprom, power consumption drops about 20% and temperature under the hood of your computer drops almost 50 degrees farenheit. Once this board has been installed in your computer you can always get the latest version of ROM installed by merely popping out the old chip and putting in a new eprom, or get it done for you if you are not an experienced hardware hacker.

With the Minerva chip, besides being nearly a complete rewrite of most of the original ROM, you get increased handling of math, text and graphics. Much of this is like having the program Lightning permanently installed. One other thing I like about the Minerva chip is that I can reset the computer by pushing CONTROL, ALT, SHIFT and TABULATE. I feel safe leaving a disk or MDV cartridge in the machine during this reset. I would not do this with the reset switch on the side. I can also have four choices on power-up, rather than two. I can get it to ignore added memory for those programs that only work with 128K, and I can put it into dumb terminal mode. Do these items at all tempt you to say "Where can I get these eprom boards or find out more about these various ROMs and how to get a replacement ROM?" If that is so, then contact :

MECHANICAL AFFINITY

Send a SASE for more info.

513 EAST MAIN ST.

PERU, IN 46970

They are also able to provide you with the famous Tom Bent improved ROM for your TS1000. This gives you better use of that old TS1000 and less heat and power consumption. I reckon they could even improve your ROM for the TS2068. If they made you an improved ROM for the QL, they can also put several other programs on that ROM, but only if you are a legal owner of that program. Examples of this would be ICE, SPEEDSCREEN, QFLASH or CPM to name some that I know about. If this sounds intriguing to you give Frank and Paul a letter or call.

# The Sinclair Desktop Publishing Journal

Volume 1 Issue 3 Summer 1990  
Edited By Mike Felerski

## You Don't Have to be Artistic to Create These Great Looking Graphics!

By Mike Felerski

You were so excited the day you received your first art program for your Sinclair that you could hardly wait for it to load. The advertisements in the magazines and even the wording in the instructions themselves touted the ability to create works of art which will



materialize on your screen and then on to your printer as "what you see is what you get."

### UNFORTUNATELY

The only inaccuracy in this statement was not inaccurate at all; what you saw is what you got. Unfortunately, what was not mentioned anywhere was the requirement for YOU to supply the artistic talent!

See ARTISTIC page 2

## Pixel Print Users Shocked by Lemke Pull-Out!

By Mike Felerski

Users of Pixel Print Plus and Pixel Print Professional desktop publishing software were shocked to learn about Stan Lemke's decision to depart from the Sinclair world. Stan and his company, Lemke Software Development, sold off all of his TS2068 and Spectrum equipment just months after announcing the release of Pixel Print Professional 5.0 (see review: Volume 1, Issue 2 of TSDPJ.)

Stan was truly the founder of desktop publishing for the TS2068 starting with the first Pixel Sketch and Graphics Editor and Pixel Print version 1.0 programs. His final version of Pixel Print was the Professional version 5.0 which incorporated a new Pixel Sketch program, accessible directly from Pixel Print as well as a

document formatter, printer configuration program and Teaword II/MScript to Pixel Print conversion utility. This final version was available as fairware.

What does the future hold for Pixel Print users? The Sinclair Desktop Publishing Journal is, at the time of this writing, working on obtaining the rights to distribute Customized Pixel Print and Pixel Print Professional 5.0. TSDPJ is also negotiating an upgrade to Pixel Print Professional via a third party.

What can you do to help? First of all, SUPPORT YOUR TS DEVELOPERS—as a matter of fact, sent out an order TODAY! The only way we have any hope of keeping our Timex and Sinclair computers alive is through the support of our dealers and developers. Make a resolution to purchase at least one new product a month.

As far as Pixel Print is concerned, we at TSDPJ need to see your support through cards and letters. If you would like to see Pixel Print continue to grow, the developer needs to know, so, Write to Save PPP, c/o The Sinclair Desktop Publishing Journal, 1284 Brushwood Avenue, Cincinnati, OH 45224, and I will make personally sure that our potential developer is aware of Pixel Print's strong support.

## TSDPJ Finds a New Home

Staff Writer

Within the first year or so of a publication, there are always the expected "Growing Pains". When TSDPJ's premier issue was published, the intention was to distribute a sample/initial issue within the ISTUG Newsletter and see if there was enough interest. If there was, then TSDPJ would become a separate publication. Since then, interest and feedback on TSDPJ has been good—good enough that it has been offered a home inside Update Computer Systems starting with Update's October 1990 issue.

To the readers of TSDPJ this means: Better defined publishing dates, larger circulation and larger TSDPJ issues (the staff will have more time to devote to exploring and writing rather than stapling and stamping.) The catch is (and there is always a catch) you have to subscribe to Update. This is not so bad because the price is excellent and it is the largest Timex/Sinclair magazine in North America. So look for the entire TSDPJ inside Update Computer Systems this fall!

Readers Note: TSDPJ is no longer accepting subscriptions, but it will honor all current subscriptions which will all expire with the Winter 91 issue.

## In This Issue OF TSDPJ.....

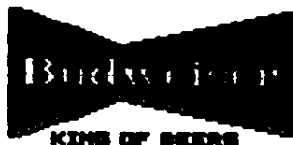
- o Stan Lemke Pulls out of TS2068 Market
- o TSDPJ Finds new Home
- o Things Your Mother Never Told You
- o TSDPJ Reviews The Press
- o Creating Frames
- o And more....

**ARTISTIC** from page 1

So the program was relegated to drawing three dimensional boxes, circuit pin-outs and maps to the company picnics. All of these are very noble projects, but they do not unleash the real power of the Sinclair or the drawing program itself.

I myself am not an artist but practice makes perfect, and experts say we all have hidden talent. But until that time when our talent blossoms, here is a short-cut to great looking graphics.

The Toronto Bluejays graphic on the front page and the Budweiser graphic below were created using a pattern found in a Counted Cross Stitch pattern booklet. Counted Cross Stitch is a type of needle work where by a picture or pattern is created on fabric by stitching Xs or /s. The process is amazingly similar to setting or resetting pixels on screen using a SCREENs graphics program (remember a SCREENs graphic is any graphic design which can be saved using SAVE "name"SCREENs and/or loaded using LOAD "name"SCREENs commands from basic.) The package I use in order to transfer the designs from the Cross Stitch booklets to a screen file (SCREENs) is the OCP Art Studio program for the Sinclair Spectrum.



The pattern is easily transferred by setting a pixel (in zoom mode) on screen for each X or / shown in the booklet. This method works for many of the patterns which can be reproduced in black and white such as logos or fonts. Multi-colored patterns require a touch more talent.

The entire idea came to me as I watched my wife cross stitch the Bluejays symbol on a sweatshirt for me one afternoon. The concept was so obvious that I was surprised I had not thought of it before! Counted Cross Stitch booklets can be found in many craft stores as well as needlepoint/quilting stores. The booklets can range from \$1 to \$10 depending on the number of patterns or the complexity of the pattern. Better still, get your spouse involved in Counted Cross Stitch, and the patterns will be free!

**Making of Issue 3**

The first and second page of this issue (Issue 3) was created using the Word-Master word processor and its page formatter, Typeliner as a complete package. The graphics for pages one and two were created with the OCP Art Studio. Pages three and four were created using the desktop publishing program First Edition from The Print Factory. Future issues will be created using these packages, plus Pixel Print Professional and The Press.

**Is Anybody Out There Using Masterscribe?**

Staff Writer

A couple of years ago, a desktop publishing program for the Timex/Sinclair 1000 was sold by the E. Arthur Brown company. The name of the package was Masterscribe and it was written by Mike Hawke. The cost of the program was \$14.95 and its final version included a full size printer driver.

If anyone has a copy of the program they wish to sell or trade, or if anyone has the address of Mike Hawke, The Sinclair Desktop Publishing Journal would love to get a hold of this program. If you have any information please contact:

Mike Feleraki

Sinclair Desktop Publishing Journal

1284 Brushwood Avenue

Cincinnati, OH 45224

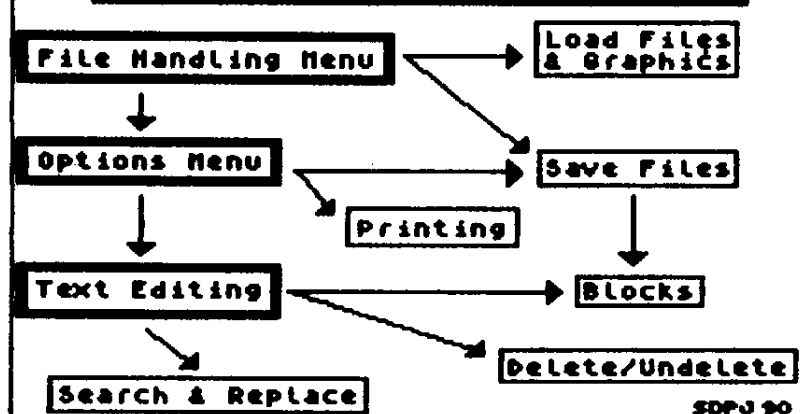
TSDPJ is highly interested in the package since it is the only desktop publishing program we are aware of for the TS1000.

**Coming This Fall...**

Coming up in the Fall 1990 issue we will explore more of The Print Factory programs, look closer at the new Pixel Print Professional 5.0, play around with Pixel Print SCREENs as figures in a document, and show a SCREENs to Zebra Icon conversion program. See you in October '90!

**Word-Master: File Handling**

The center point of the Word-Master text processing and desktop publishing package is the File Handling Menu (FHM). From this menu, all other menus, programs, text files, fonts and graphics are accessed and manipulated. As mentioned in Issue 2 of The Sinclair Desktop Publishing Journal, the memory which is not used to hold the Word-Master program (including FHM) is utilized as a RAM disk to hold the text files, code modules, fonts and graphics.

**Word-Master Menu Structure**

The FHM allows the user to LOAD and SAVE any of the files in the RAM disk to cassette, any of several floppy disk drives on your system and even to the Larian RAM Disk. There are commands to change the default drive number (where drive zero is cassette), execute a CATALOG of the default drive (except drive 0), and view a listing of the files stored in the main RAM disk.

Other features of the FHM include ERASE to remove files from disk, DELete to remove a file from the RAM disk and GET which is used to edit a text file or execute a program module. Finally, there is a GRAPHICS option which allows the user to load a SCREENs into memory, adjust the screen's size to eliminate unused space and then save the graphic/SCREENs to the RAM disk in a condensed form. The condensed graphic can then be saved to disk or cassette thus wasting little disk space or cassette load time. It is from the FHM that one enters Word-Master, the word processor.

# TSDPJ DIVES INTO THE PRINT FACTORY'S THE PRESS DESKTOP PUBLISHER

AS THE USERS MANUAL STATES, **THE PRESS** DIFFERS QUITE A LOT FROM **First Edition**. **THE PRESS** ALLOWS YOU TO CREATE PAGES WITH **SCREENS** INSTEAD OF **GRAPHIC DESIGNS**. HERE IS WHERE YOU CAN'T HAVE YOUR CAKE AND EAT IT TOO. WHERE **First Edition** ONLY ALLOWS YOU TO WORK WITH **GRAPHIC DESIGNS**, **THE PRESS** ONLY ALLOWS YOU TO WORK WITH **SCREENS**. ONE OTHER DRAW-BACK IS THAT YOU CAN ONLY CREATE AT MAXIMUM, ONE HALF (1/2) OF A PAGE AT A TIME, UNLIKE **First Edition**, WHERE YOU ARE ABLE TO CREATE THE ENTIRE PAGE (8 1/2"x11") IN MEMORY AT ONCE. THIS IS BECAUSE **SCREENS** ARE LESS EFFICIENT AND TAKE UP MUCH MORE MEMORY THAN **PRINT FACTORY GRAPHIC DESIGNS**.

A HALF OF A PAGE CONSISTS OF 60 COLUMNS WIDE BY 44 LINES LONG AT 480 DPL (DOTS PER LINE). THEREFORE, TO PRODUCE A FULL PAGE YOU WOULD CREATE A TOP HALF THEN A BOTTOM HALF, AND PRINT THE TOP HALF, LOAD THE BOTTOM HALF INTO MEMORY, THEN PRINT IT. AT FIRST IT SOUNDS A LITTLE HOKEY, BUT ONCE YOU HAVE PLAYED WITH IT, IT IS NOT SO BAD.

ANOTHER FEATURE OF **THE PRESS** IS THAT THERE ARE 4 FONTS AVAILABLE, FONT I-III AND THE ROM FONT. UNLIKE **First Edition** FONTS ALREADY IN THE PAGE ARE NOT REPLACED BY A NEWLY LOADED FONT. THERE IS ALSO A FACILITY TO WORK WITH REAL 16 POINT FONTS. A 16 POINT FONT IS LOADED OVER BOTH THE EXISTING 8 POINT FONT II AND III. THEN TO USE THE 16 POINT FONT YOU NEED TO SELECT THE **Real Double** OPTION, AND YOU ARE ON YOUR WAY. SO WHY IS SO MUCH ATTENTION PAID TO FONTS? IT IS BECAUSE **THE PRESS** DOES NOT ALLOW YOU TO USE SUPER SETS, WHICH OF COURSE ARE **GRAPHIC DESIGNS**.

**SCREENS** CAN BE MERGED AS WELL AS OVERLAPPED AND LOADED FROM THE MAIN MENU (SEE **SCREENS** AND **The Press!**). TO LOAD A SCREEN YOU MUST PLACE THE CURSOR IN THE UPPER LEFT CORNER POSITION ON THE PAGE WHERE YOU WISH THE UPPER LEFT CORNER OF THE **SCREENS** TO APPEAR. THEN LOAD THE **SCREENS** FROM THE MAIN MENU. AFTER LOADING, A MENU BAR WILL APPEAR AT THE BOTTOM OF THE SCREEN WHICH HAS THE OPTIONS: **BOTTOM TOP O.K. MENU**. HERE IS WHERE YOU TELL **THE PRESS** HOW MUCH OF THE **SCREENS** YOU WANT TO USE. FIRST, CLICK ON **TOP**, MOVE THE POINTER TO THE UPPER LEFT CORNER OF THE **SCREENS** AND CLICK ON IT. NEXT, CLICK ON **BOTTOM** AND THEN CLICK ON THE LOWER LEFT CORNER OF THE **SCREENS**. AREA YOU WISH TO USE ON YOUR PAGE. FINALLY, CLICK ON **O.K.** AND YOUR **SCREENS** WILL BE INSTALLED ON THE PAGE. SELECTING **MENU** AT ANY TIME WILL RETURN YOU TO THE PAGE AND **NOT** INSTALL THE **SCREEN**!

OTHER FEATURES INCLUDE **Over**, **Merge**, **Inverse** AND **Normal** TEXT MODES, PLUS THE OTHER REGULAR EDITING MODES AS FOUND IN **First Edition**. **THE PRESS** IS HANDY WHEN A USER IS CREATING A PAGE WHICH INCLUDES VIDEO DIGITIZED PICTURES AS **SCREENS**. **GRAPHIC DESIGNS** CAN BE CONVERTED TO, AND USED IN **SCREENS** VIA **Quick Screen** FOR USE IN **THE PRESS**. BUT MOST USERS WILL FIND IT BETTER TO STAY AWAY FROM **THE PRESS** UNLESS THE INCLUSION OF A **SCREENS(S)** IS A MUST FOR A PARTICULAR PAGE OR DOCUMENT.

## CREATING FRAMES

For Use in The Print Factory

NOW THAT YOU HAVE CONVERTED ALL OF THE PROGRAMS TO DISK AND TRANSLATED ALL OF YOUR **ZEBRA/PIXEL PRINT** ICONS TO **GRAPHIC DESIGN FILES**, IT IS TIME TO BE CREATIVE. THE FIRST DESIRE IS FOR SOMETHING SIMPLE SUCH AS BORDERS OR FRAMES. ONE REASON TO TRY WITH BORDERS IS THE EASE AT WHICH THEY CAN BE DESIGNED, AND ANOTHER IS THE ABILITY TO INSTANTLY CREATE FRAMES USING **PRINT FACTORY'S Frame II** OPTION. **Frame II** LETS THE USER SELECT THE UPPER LEFT CORNER F

**Design MENU**, USE THE POINTER TO POINT & CLICK FIRST THE UPPER LEFT CORNER, THEN THE LOWER RIGHT CORNER POSITION AND INSTANTLY A FRAME IS CREATED!

IN ORDER TO CREATE YOUR OWN FRAME, YOU NEED TO KNOW THE ORDER IN WHICH A FRAME IS PUT TOGETHER FROM A **GRAPHICS DESIGN FILE**. A **Frame II** FRAME IS MADE UP OF 8 (MOST LIKELY DIFFERENT) PATTERNS. THERE IS A PATTERN FOR EACH CORNER AND EACH SIDE. THE ORDER IN WHICH THE PATTERNS MUST BE STORED IS AS FOLLOWS:

(EXAMPLE OF THE FRAME PATTERN USED TO CREATE THE FRAME AROUND THIS ARTICLE.)	1	2	3
	4	5	6
	7	8	

EACH OF THE 8 PATTERNS IS CREATED AND STORED USING **The Creator** PROGRAM. ALL 8 CAN BE CREATED IN ANY ORDER, BUT MUST BE STORED IN THE **GRAPHICS DESIGNS FILE** IN THE ABOVE ORDER! **Frame II** PATTERNS ARE 8x8 PIXELS AND BY PLACING ONE FRAME INSIDE ANOTHER YOU CAN CREATE SOME INTERESTING EFFECTS! HAVE FUN WITH FRAMES AND EXPERIMENT. GOOD LUCK!

### NOTE

WHEN YOU WISH TO RETURN TO AN 8 POINT FONT FROM A 16 POINT FONT, YOU MUST CLICK ON THE **Real Double** OPTION FIRST! MY BEST GUESS IS THIS APPEARS TO BE A QUIRK IN THE **PRESS** PROGRAM.

# THINGS YOUR MOTHER NEVER TOLD YOU

(Or, TSDPJ's "Understanding The Language of The Print Factory....")

By Mike Felerski

**One** OF THE MOST FRUSTRATING THINGS ABOUT A NEW PIECE OF SOFTWARE IS TOO OFTEN THE LACK OF COMPLETE INSTRUCTIONS ON HOW TO USE THE SOFTWARE AND ITS COMMANDS TO DO WHAT YOU WANT TO DO. PROGRAMMERS ARE NOTORIOUS FOR DESPISING DOCUMENTATION, ESPECIALLY THE CREATION THEREOF! AS SOFTWARE PACKAGES PROGRESSED, THEY BECAME MORE AND MORE "USER FRIENDLY", A TERM TOO LIBERALLY APPLIED THESE DAYS. IN COMES *The Print Factory* BY BYTE POWER MAGAZINE. ITS CLAIM IS THAT THE PRINT FACTORY PROGRAMS ARE SO "USER FRIENDLY" YOU WILL ALMOST NEVER NEED TO REFERENCE THE MANUAL. BUT THERE ARE THOSE OCCASIONS WHEN YOU WILL NEED TO LOOK UP ITEMS IN THE MANUAL, AND THIS ARTICLE IS HERE TO CLEAR UP THOSE "GRAY" AREAS.

**First Edition Version 1.1** USES ALL OF THE MEMORY OF THE COMPUTER INCLUDING THE AREA ABOVE MEMORY LOCATION 64000 WHICH IS USED IN FIRST EDITION VERSION 1.0 FOR PRINTER INTERFACE DRIVER SOFTWARE. THEREFORE, IF YOU ARE USING AN AERCO OR TASMAN D INTERFACE, YOU DO NOT NEED TO LOAD A PRINTER INTERFACE DRIVER AND CAN USE FIRST EDITION VERSION 1.1. WHAT THIS ADDED MEMORY OF VERSION 1.1 GIVES YOU IS 1.5K ADDITIONAL **Graphic Design** MEMORY SPACE. NO ADDITIONAL PAGE SPACE IS ACQUIRED. YOU ARE STILL LIMITED TO A MAXIMUM PAGE WIDTH OF 255 OR MAXIMUM PAGE LENGTH OF 255.

**EXTENDED Mode** IS MENTIONED IN THE FIRST EDITION SECTION OF THE MANUAL FOR SETTING THE LEFT MARGIN, SETTING A TAB AND USING THE TAB FUNCTION. WHAT THE INSTRUCTIONS FAIL TO MENTION IS HOW TO GET INTO THE EXTENDED MODE. THIS IS DONE BY PRESSING THE CAPS SHIFT AND SYMBOL SHIFT KEY AT THE SAME TIME. THEN LET OFF, AND PRESS M FOR SETTING THE LEFT MARGIN, ETC. BY THE WAY, I HAVE YET TO FIND A WAY TO SET THE RIGHT MARGIN IN FIRST EDITION AS MENTIONED IN THE INSTRUCTIONS, AND THEREFORE IT MAY BE A TYPOGRAPHICAL ERROR.

**SUPER SETS** ARE SUPER-SIZED FONTS THAT ARE ACCESSED BY SELECTING THE FIRST CHARACTER OF THE SUPER SET (USUALLY THE LETTER "A") FROM THE GRAPHICS DESIGNS MENU, AND THEN SELECTING THE SUPER SET OPTION FROM WITHIN THE TEXT MENU. THE IMPORTANT THING TO NOTE IS THAT THE SUPER SET FONTS FOUND ON THE SECOND TO LAST PAGE OF THE INSTRUCTION MANUAL ARE LOADED INTO THE PRINT FACTORY PROGRAM AS **Graphic Designs**, NOT as Fonts! FONTS ARE THE 8x8 DOT CHARACTER SETS THAT CAN BE LOADED INTO PROGRAMS SUCH AS PIXEL PRINT, ART STUDIO, ETC. BYTE POWER SELLS A FONT PACKAGE CALLED FIRST CLASS FONTS II, AND OTHER FONTS ARE AVAILABLE THROUGH RMG INC. AND THEY CAN ALL BE USED WITH FIRST EDITION AND THE PRESS.

**Letter Perfect** IS UNIQUE ON ITS OWN IN THAT IT IS NOT A WHAT YOU SEE IS WHAT YOU GET, SO THERE ARE MORE THINGS TO KEEP TRACK OF. TEXT FUNCTIONS SUCH AS SET TAB ASK FOR A NUMBER (###) WHERE THE ### REFERS TO THE NUMBER OF PIXELS YOU WANT TO TAB. A RULE I USE WHEN CREATING LETTERS IS TO USE A TAB VALUE OF 320 WHEN A WIDTH OF 576, AND A LENGTH OF 55 LINES IS USED.

LETTER PERFECT ALSO USES EXPECTS A **Line Feed Code** TO TELL THE PROGRAM HOW FAR TO ADVANCE THE PAGE AFTER EACH LINE DURING PRINTING. I RECOMMEND 8/72" SPACING. TO IMPLIMENT THIS ON AN EPSON COMPATIBLE PRINTER, ENTER THE FOLLOWING FOR A LINE FEED CODE:

27 65 8

**If** YOU HAVE ANY PRINT FACTORY TID-BITS, TRICKS OR HELPFUL HINTS YOU WOULD LIKE TO SHARE WITH OTHER READERS, SEND THEM TO:

Sinclair Desktop Publishing Journal  
1284 Brushwood Avenue  
Cincinnati, OH 45224

**File Names** are one thing that were left out of the Print Factory's documentation. Below is a list of the Graphic Designs' file names:

Name	Description
ANIMALS	ANIMALS & NATURE
OFFICE	HOME & OFFICE GRAPHICS
TRANSPORT	TRANSPORTATION & SPORTS
ARTS	ART & HOLIDAY GRAPHICS
MISC.	63 MISC. GRAPHICS
COMICS	COMICS & CARTOONS
DIGITIZED	DIGITIZED PICTURES
FRAME 1	1x1 8 CHARACTER FRAMES
FRAME 2	ODD SIZE FRAMES
FRAME 3	MISC. & SPECIAL FRAMES
FONT 1	
FONT 2	
.	SUPER SET TYPE FONTS
FONT 13	

Byte Power Magazine  
1748 Meadowview Avenue  
Pickering, ONT L1V 3G8 Canada



Instructions for sending in computer equipment:

1. For repairs, please use a separate sheet of paper to describe in detail the problem you are encountering, and whether or not the problem is intermittent. List any software or hardware that are associated with the problem. Also list any modifications that have been done to your equipment.
2. For upgrades, please enclose or specify the magazine article or other source of information for doing each upgrade.
3. You may include a check or money order as a deposit for repair costs. You will be notified if a balance is due. Over amounts will be refunded.
4. Carefully pack and ship your equipment to the address below via UPS or parcel post. UPS is usually cheaper, especially with heavy items.

DAN ELLIOTT  
RT 1, BOX 117  
CABOOL, MO 65689

Phone (314) 739-1712 evenings, Sunday through Thursday till 10 PM Central.

Phone (417) 469-4571 Saturdays by chance till 11 PM Central time.

VISA / MASTERCARD accepted with 4% surcharge.

(Charge customers must provide Acct. #, expiration date, and name on card.)

WHERE CAN YOU GET TS1000 SUPPLIES?

Just recently a young lady from California sent an envelope to ISTUG wanting a TS1000 catalog. I had to let her know we are a user group, not a seller of software and hardware. I did send her a small list of places to look for these and hope this will be of help. What this brought to mind is that it would be a good idea to publish a short list of places to look for software and other items for the TS1000, ZX81 and the TS1500.

- (1) Charles Ridgeway -for software  
2816 Chestnut  
San Angelo, TX 76901
- (2) SMUG -has a fair amount of stuff from Zebras stock  
P.O. Box 101  
Butler, WI 53007
- (3) RMG -has most anything you could want  
1419 1/2 7th Street  
Oregon City, OR 97045
- (4) EMSOft -software and connectors  
P.O. Box 8763  
Boston, MA 02114

Let us know of any others out there that are still doing some business with the TS1000 and we will try to get the word out to the users.



## MEMOPAK RAM & TS2040 PRINTER COMPATIBILITY

In the majority of cases there is no problem operating the Memopak RAM modules with the Timex TS2040 printer attached. Occasionally though, a problem will occur with a particular computer and particular printer. The problem is caused by three capacitors in the TS2040 printer which can easily be removed to fix the situation. These capacitors were most likely put into the printer design to decrease noise on the bus, but they sometimes slow up the signals so much that the RAMs don't work properly.

"If it ain't broke...don't fix it."

As I stated, most MEMOTECH RAMs operate fine with most printers. If you're not experiencing any problems, don't look for trouble.

If your Memotech RAM and TS2040 Printer do not work together:

If you find that the RAM and your TS2040 work separately with your computer, but do not work when both are attached at the same time, there is a simple fix. If you are relatively handy with a screw driver, you can implement the following printer modification which will in all likelihood solve the compatibility problem:

Your printer should be disconnected from its power supply and computer.

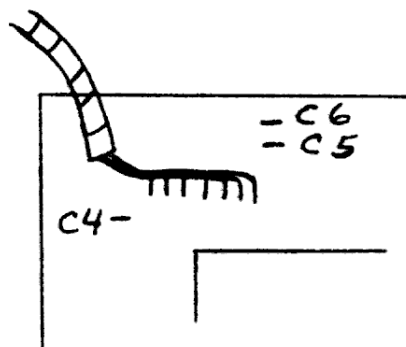
1) First, remove the roll of paper by tearing off the roll, and pulling the last piece of paper through the printer in the forward direction only. CAUTION: Trying to pull the paper through in the reverse direction may misalign or damage the print heads.

2) Remove the four screws at the bottom of the printer case and lift the top printer cover off.

3) There are three small capacitors marked C4, C5 and C6 near the incoming signal cable. Remove them by simply rocking each capacitor forward and back until their connecting leads fatigue and break. This will take about ten to twenty movements for each of the three capacitors. Throw the capacitors out.

4) Replace the top cover and the four screws and re-install the paper roll.

Your TS2040 printer should now work with your MEMOPAK RAM.



← Corner of TS2040  
printed circuit board  
with capacitor locations

I. S. T. U. G.  
513 EAST MAIN STREET  
PERU, IN 46970

FIRST CLASS MAIL



Address correction requested:

I  
=  
L

W.

52404

ISTUG is a not for profit, educational organization dedicated to helping users of Timex, Sinclair and Cambridge computers. We offer a hardcopy and software library for our membership along with technical assistance and monthly meetings (usually the last Saturday of the month at 1:30 P.M.). Full membership is available at \$12 per year and newsletter only subscriptions at \$9 per year. Send all inquiries, along with SASE, to ISTUG, 513 E. Main St., Peru, IN, 46970.